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WHAT IS CLAIMED IS:

1. A polymer having a star structure chosen from structures of formula (I):

$$A-[(M1)_{p1}-(M2)_{p2}...(Mi)_{pj}]_{n}$$
 (1)

in which:

A is chosen from polyfunctional centers having a functionality n; $[(M1)_{p_1}-(M2)_{p_2}...(Mi)_{p_j}] \ \text{represents a branch comprising at least one polymerized} \\$ monomeric unit Mi having a polymerization index pj;

n is an integer greater than or equal to 2;

i is greater than or equal to 1;

pj is greater than or equal to 2;

the at least two branches may be identical or different; and said at least two branches are grafted covalently to A;

wherein said at least one polymerized monomeric unit Mi comprised by at least one of said at least two branches is chosen from polymerized monomeric units Mk, which may be identical or different, wherein a homopolymer formed by the corresponding polymerized monomeric units Mk has a Tg of greater than or equal to 10°C; and

wherein said at least one polymerized monomeric unit Mi chosen from polymerized monomeric units Mk is present in an amount greater than or equal

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to 45 percent by weight relative to the total weight of the polymerized monomeric units Mi.

- 2. A polymer according to claim 1, wherein said homopolymer formed by the corresponding polymerized monomeric units Mk has a Tg of greater than or equal to 15°C.
- 3. A polymer according to claim 2, wherein said Tg has a value of greater than or equal to 20°C.
- 4. A polymer according to claim 1, wherein said at least one polymerized monomeric unit Mi chosen from polymerized monomers Mk is present in an amount ranging from 55 to 99 percent by weight relative to the total weight of the polymerized monomeric units Mi.
- A polymer according to claim 6, wherein said amount ranges from
 to 90 percent.
- 6. A polymer according to claim 1, further comprising at least one polymerized monomeric unit Mi contained by at least one of said at least two branches chosen from polymerized monomeric units Mj, which may be identical or different, wherein a homopolymer formed by the corresponding polymerized monomeric units Mj has a Tg of less than or equal to 10°C; and

wherein said at least one polymerized monomeric unit Mi chosen from polymerized monomeric untis Mj is present in an amount less than or equal

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to 55 percent by weight relative to the total weight of the polymerized monomeric units Mi.

- 7. A polymer according to claim 6, wherein said homopolymer formed by the corresponding polymerized monomeric units Mj has a Tg of less than or equal to 5°C.
- 8. A polymer according to claim 7, wherein said Tg has a value of less than or equal to 0°C.
- 9. A polymer according to claim 6, wherein said at least one polymerized monomeric unit Mi chosen from polymerized monomeric units Mj is present in an amount ranging from 1 to 45 percent by weight relative to the total weight of the polymerized monomeric units Mi.
- 10. A polymer according to claim 9, wherein said amount ranges from10 to 25 percent.
- 11. A polymer according to claim 1, wherein said at least one of said branches has a form of a block and a molecular mass ranging from 500 to 2,000,000 Daltons.
- 12. A polymer according to claim 1, wherein said polymerized monomeric unit Mk is chosen from radically polymerizable compounds containing an ethylenic unsaturation having a formula:

$$R_1$$
 R_2
 R_4

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in which:

 R_1 , R_2 , R_3 , and R_4 are, each independently of one another, chosen from: a hydrogen atom;

halogen atoms;

linear and branched alkyl radicals having from 1 to 20 carbon atoms which are optionally substituted by at least one halogen atom or at least one -OH radical;

linear and branched alkenyl and alkynyl radicals having from 2 to 10 carbon atoms which are optionally substituted by at least one halogen atom;

cyclic hydrocarbonaceous radicals having from 3 to 8 carbon atoms which are optionally substituted by at least one halogen atom, nitrogen atom, sulphur atom, or oxygen atom;

radicals chosen from CN, C(=Y)R⁵, C(=Y)NR⁶R⁷, YC(=Y)R⁵, cyclic NC(=Y)R⁵, SOR⁵, SO₂R⁵, OSO₂R⁵, NR⁸SO₂R⁵, PR⁵₂, P(=Y)R⁵₂, YPR⁵₂, YPR⁵₂, VP(=Y)R⁵₂, NR⁸₂, NR⁸₃, NR⁸₂(aryl), and NR⁸₂(heterocycyl),

in which:

Y is chosen from O, S, and NR8;

R⁵ is chosen from linear and branched alkyl radicals, alkylthio radicals, and alkoxy radicals having from 1 to 20 carbon

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atoms; an OH radical; OM' radicals in which M' is chosen from alkali metals; aryloxy radicals; and heterocyclyloxy radical;

R⁶ and R⁷, independently of one another, are chosen from a hydrogen atom, linear and branched alkyl radicals having from 1 to 20 carbon atoms; or R⁶ and R⁷ together form an alkylene group having from 2 to 7 carbon atoms;

R⁸ is chosen from a hydrogen atom, linear and branched alkyl radicals having from 1 to 20 carbon atoms and an aryl radical; COOR radicals, in which R is chosen from linear and branched alkyl radicals having from 1 to 20 carbon atoms which are optionally substituted by at least one halogen atom;

CONHR' radicals, in which R' is chosen from hydrogen atoms and saturated and unsaturated, linear and branched, hydrocarbonaceous radicals having from 1 to 20 carbon atoms which are optionally substituted by at least one halogen atom, nitrogen atom or oxygen atom;

OCOR" radicals, in which R" is chosen from hydrogen atoms and saturated and unsaturated, linear and branched, hydrocarbonaceous radicals having from 1 to 20 carbon atoms which are optionally substituted by at least one halogen atom, nitrogen atom, or oxygen atom; and radicals comprising at least one silicon atom; or

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R¹ and R³ radicals together form a ring having the formula (CH₂)_n which can be substituted by at least one halogen atom, oxygen atom, nitrogen atom, or an alkyl radical having from 1 to 6 carbon atoms, in which n' is an integer ranging from 3 to 12.

- 13. A polymer according to claim 12, wherein at least one of R_1 , R_2 , R_3 , and R_4 , each independently of one another, is chosen from linear and branched alkyl radicals having from 1 to 6 carbon atoms which are optionally substituted by at least one halogen atom or at least one -OH radical.
- 14. A polymer according to claim 12, wherein at least one of R_1 , R_2 , R_3 , and R_4 , each independently of one another, is chosen from linear and branched alkyl radicals having from 1 to 4 carbon atoms which are optionally substituted by at least one halogen atom or at least one -OH radical.
- 15. A polymer according to claim 12, wherein at least one of R_1 , R_2 , R_3 , and R_4 , each independently of one another, is chosen from linear and branched alkenyl and alkynyl radicals having from 2 to 6 carbon atoms which are optionally substituted by at least one halogen atom.
- 16. A polymer according to claim 12, wherein at least one of R_1 , R_2 , R_3 , and R_4 , each independently of one another, are chosen from linear and branched alkenyl and alkynyl radicals having from 2 to 4 carbon atoms which are optionally substituted by at least one halogen atom.

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- 17. A polymer according to claim 12, wherein at least one of R_1 , R_2 , R_3 , and R_4 , independently of one another, is chosen from $C(=Y)R^5$, $C(=Y)NR^6R^7$, $YC(=Y)R^5$, cyclic $NC(=Y)R^5$, $P(=Y)R^5$, YPR^5 , and $YP(=Y)R^5$, in which Y is O.
- 18. A polymer according to claim 12, wherein at least one of R_1 , R_2 , R_3 , and R_4 , independently of one another, is chosen from $C(=Y)NR^6R^7$, in which R^6 and R^7 together form an alkylene group having from 2 to 5 carbon atoms.
- 19. A polymer according to claim 12, wherein at least one of R_1 , R_2 , R_3 , and R_4 , independently of one another, is chosen from COOR radicals, in which R is chosen from linear and branched alkyl radicals having from 1 to 6 carbon atoms which are optionally substituted by at least one halogen atom.
- 20. A polymer according to claim 12, wherein at least one of R₁, R₂, R₃, and R₄, independently of one another, is chosen from CONHR' radicals, in which R' is chosen from hydrogen atoms, saturated and unsaturated, linear and branched, hydrocarbonaceous radicals having from 1 to 6 carbon atoms which are optionally substituted by at least one halogen atom, nitrogen atom or oxygen atom.
 - 21. A polymer according to claim 12, wherein at least one of R_1 , R_2 , R_3 , and R_4 , independently of one another, is chosen from radicals containing at least one silicon atom, wherein said radicals are chosen from -R-siloxane radicals, -CONHR-siloxane radicals, and -OCO-R-siloxane

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radicals, in which R is chosen from linear and branched alkyl, alkylthio, alkoxy, aryloxy, and heterocycloxy radicals having from 1 to 20 carbon atoms.

22. A polymer according to claim 1, wherein said polymerized monomeric unit Mk is chosen from:

acrylic or methacrylic esters obtained from linear, branched, or cyclic aliphatic alcohols and/or from aromatic alcohols;

C₁-C₄ hydroxyalkyl (meth)acrylates;

ethylene glycol, diethylene glycol, and polyethylene glycol (meth)acrylates with a hydroxyl or ether end;

vinyl, allyl, methallyl esters obtained from linear or branched C_1 - C_{10} aliphatic alcohols, cyclic C_1 - C_6 aliphatic alcohols, and aromatic alcohols;

N-vinylpyrrolidone; vinylcaprolactam; vinyl-N-alkylpyrroles having from 1 to 6 carbon atoms; vinyloxazoles; vinylthiazoles; vinylpyrimidines; vinylimidazoles; and vinyl ketones;

(meth)acrylamides obtained from linear, branched, or cyclic aliphatic amines or from aromatic amines; (meth)acrylamides chosen from acrylamide, methacrylamide and $di(C_1-C_4)alkyl(meth)acrylamides$;

olefins;

fluorinated or perfluorinated acrylic and vinyl monomers;

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monomers containing an amine functional group in the free or else partially or completely neutralized or else partially or completely quaternized form;

carboxybetaines-and sulphobetaines obtained by partial or complete quaternization of monomers containing at-least one ethylenic unsaturation which contains an amine functional group, wherein said quaternization occurs by a sodium salt of a carboxylic acid which contains a mobile halide or by a cyclic sulphone; and

silicone-containing (meth)acrylates and (meth)acrylamides.

- 23. A polymer according to claim 22, wherein said acrylic or methacrylic esters obtained from linear, branched, or cyclic aliphatic alcohols and/or from aromatic alcohols are obtained from C_1 - C_{20} alcohols.
- 24. A polymer according to claim 23, wherein said acrylic or methacrylic esters are chosen from methyl (meth)acrylates, ethyl (meth)acrylates, propyl (meth)acrylates, butyl (meth)acrylates, isobutyl (meth)acrylates, and tert-butyl (meth)acrylates.
- 25. A polymer according to claim 22, wherein said C₁-C₄ hydroxyalkyl (meth)acrylates are chosen from 2-hydroxyethyl (meth)acrylates and 2-hydroxypropyl (meth)acrylates.

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- 26. A polymer according to claim 22, wherein said vinyl, allyl, and methallyl esters obtained from linear or branched C_1 - C_{10} aliphatic alcohols, cyclic C_1 - C_6 aliphatic alcohols, and aromatic alcohols are obtained from C_1 - C_6 alcohols.
- 27. A polymer according to claim 26, wherein said vinyl, allyl, and methallyl esters are chosen from vinyl acetate, vinyl propionate, vinyl benzoate, and vinyl tertbutylbenzoate.
- 28. A polymer according to claim 22, wherein said (meth)acrylamides obtained from linear, branched, or cyclic aliphatic amines or from aromatic amines are obtained from C_1 - C_{20} amines.
- 29. A polymer according to claim 28, wherein said (meth)acrylamides are chosen from tert-butylacrylamide.
- 30. A polymer according to claim 22, wherein said olefins are chosen from ethylene, propylene, styrene, and substituted styrene.
- 31. A polymer according to claim 22, wherein said fluorinated or perfluorinated acrylic and vinyl monomers are chosen from (meth)acrylic esters containing at least one perfluoroalkyl unit.
- 32. A polymer according to claim 22, wherein said monomers containing an amine functional group in the free or else partially or completely neutralized or else partially or completely quaternized form are chosen from dimethylaminoethyl (meth)acrylate, dimethylaminoethylmethacrylamide, vinylamine, vinylpyridine, and diallyldimethylammonium chloride.

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- 33. A polymer according to claim 22, wherein said carboxybetaines and sulphobetaines obtained by partial or complete quaternization of monomers containing at least one ethylenic unsaturation which contains an amine functional group by a sodium salt of a carboxylic acid which contains a mobile halide or by a cyclic sulphone.
 - 34. A polymer according to claim 33, further wherein said sodium salt of the carboxylic acid is sodium chloroacetate.
 - 35. A polymer according to claim 33, further wherein said cyclic sulphone is propane sulphone.
 - 36. A polymer according to claim 22, wherein said silicone-containing (meth)acrylates and (meth)acrylamides are chosen from (meth)acrylic esters containing at least one siloxane unit.
 - 37. A polymer according to claim 1, wherein said polymerized monomeric unit Mk is chosen from:

(meth)acrylic esters obtained from linear or branched aliphatic alcohols; $C_{1}\text{-}C_{20} \text{ (meth)acrylic esters containing at least one perfluoroalkyl unit;}$ $C_{1}\text{-}C_{20} \text{ (meth)acrylic esters containing at least one siloxane unit;}$ (meth)acrylamides obtained from linear, branched, or cyclic aliphatic amines and/or from aromatic amines;}

(meth)acrylamides chosen from acrylamides, $\label{eq:diction} \mbox{di}(C_1\text{-}C_4) \mbox{alkyl(meth)acrylamides, and methacrylamides;}$

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vinyl, allyl, and methallyl esters obtained from linear or branched C_1 - C_{10} aliphatic alcohols and cyclic C_1 - C_6 aliphatic alcohols;

vinylcaprolactam; and styrene and substituted styrene.

- 38. A polymer according to claim 37, wherein said (meth)acrylic esters obtained from linear or branched aliphatic alcohols are obtained from C_1 - C_{20} alcohols.
- 39. A polymer according to claim 37, wherein said (meth)acrylamides are obtained from linear, branched, or cyclic aliphatic amines and/or from aromatic amines, and further wherein said aliphatic and/or aromatic amines are chosen from C_1 - C_{20} amines.
- 40. A polymer according to claim 37, wherein said (meth)acrylamides are chosen from tert-butylacrylamide.
- 41. A polymer according to claim 6, wherein said polymerized monomeric unit Mj is chosen from radically polymerizable compounds containing an ethylenic unsaturation having a formula:

$$R_1$$
 R_2
 R_3
 R_4

in which:

 R_1 , R_2 , R_3 , and R_4 are, each independently of one another, chosen from: a hydrogen atom;

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halogen atoms; much green of the end same service element

atoms which are optionally substituted by at least one halogen atom or at

10 carbon atoms which are optionally substituted by at least one halogen atom;

cyclic hydrocarbonaceous radicals having from 3 to 8 carbon atoms which are optionally substituted by at least one halogen atom, nitrogen atom, sulphur atom, or oxygen atom;

radicals chosen from CN, C(=Y)R 5 , C(=Y)NR 6 R 7 , YC(=Y)R 5 , cyclic NC(=Y)R 5 , SOR 5 , SO2R 5 , OSO2R 5 , NR 8 SO2R 5 , PR 5 2, P(=Y)R 5 2, YPR 5 2, YPR 5 2, NR 8 3, NR 8 3, NR 8 2(aryl) $^+$, and NR 8 2(heterocycyl) $^+$, in which:

Y is chosen from O, S, and NR8;

R⁵ is chosen from linear and branched alkyl radicals, alkylthio radicals, and alkoxy radicals having from 1 to 20 carbon atoms; an OH radical; OM' radicals in which M' is chosen from alkali metals; aryloxy radicals; and heterocyclyloxy radical;

R⁶ and R⁷, independently of one another, are chosen from a hydrogen atom, linear and branched alkyl radicals having from 1 to

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20 carbon atoms; or R⁶ and R⁷ together form an alkylene group having from 2 to 7 carbon atoms;

R⁸ is chosen from a hydrogen atom, linear and branched alkyl radicals having from 1 to 20 carbon atoms and an aryl radical; alkyl radicals, in which R is chosen from linear and branched alkyl radicals having from 1 to 20 carbon atoms which are optionally substituted by at least one halogen atom;

CONHR' radicals, in which R' is chosen from hydrogen atoms and saturated and unsaturated, linear and branched, hydrocarbonaceous radicals having from 1 to 20 carbon atoms which are optionally substituted by at least one halogen atom, nitrogen atom or oxygen atom;

OCOR" radicals, in which R" is chosen from hydrogen atoms and saturated and unsaturated, linear and branched, hydrocarbonaceous radicals having from 1 to 20 carbon atoms which are optionally substituted by at least one halogen atom, nitrogen atom, or oxygen atom; and radicals comprising at least one silicon atom; or

R¹ and R³ radicals together form a ring having the formula (CH₂)_n, which can be substituted by at least one halogen atom, oxygen atom, nitrogen atom, or an alkyl radical having from 1 to 6 carbon atoms, in which n' is an integer ranging from 3 to 12.

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- 42. A polymer according to claim 1, wherein said polymer forms a film having a retraction of the isolated stratum corneum which is greater than or equal to 1 percent when measured using a dermometer, at 30°C, under a relative humidity of 40 percent, for a concentration of 7 percent of said polymer in a solvent.
- 43. A polymer according to claim 42, wherein said retraction of the isolated stratum corneum is greater or equal to 1.1 percent.
- 44. A polymer according to claim 42, wherein said solvent is isododecane or water.
- 45. A polymer according to claim 1, wherein said polymer forms a film having a modulus of elasticity ranging from 1×10^8 to 9×10^9 Pa.
- 46. A polymer according to claim 45, wherein said modulus of elasticity ranges from 9×10^8 to 8.5×10^9 Pa.
- 47. A polymer according to claim 46, wherein said modulus of elasticity ranges from 1×10^9 to 8×10^9 MPa.
- 48. A composition, comprising, in a physiologically acceptable medium, at least one polymer having a star structure chosen from structures of formula (I):

$$A-[(M1)_{p1}-(M2)_{p2}...(Mi)_{pj}]_n$$
 (I)

in which:

A is chosen from polyfunctional centers having a functionality n;

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 $[(M1)_{p1}-(M2)_{p2}....(Mi)_{pj}]$ represents a branch comprising at least one polymerized monomeric unit Mi having a polymerization index pj;

n is an integer greater than or equal to 2;

- i is greater than or equal to 1;
- : --pj_is greater than or equal to 2;

the at least two branches may be identical or different; and said at least two branches are grafted covalently to A; and

wherein said at least one polymerized monomeric unit Mi comprised by at least one of said at least two branches is chosen from polymerized monomeric units Mk, which may be identical or different, wherein a homopolymer formed by the corresponding polymerized monomeric units Mk has a Tg of greater than or equal to 10°C.

- 49. A composition according to claim 48, wherein said at least one polymerized monomeric unit Mi chosen from polymerized monomeric units Mk is present in an amount greater than or equal to 45 percent by weight relative to the total weight of the polymerized monomeric units Mi.
- 50. A composition according to claim 48, further comprising at least one polymerized monomeric unit Mi contained by at least one of said at least two branches chosen from polymerized monomeric units Mj, which may be identical or different, wherein a homoolymer formed by the corresponding polymerized monomeric units Mj has a Tg of less than or equal to 10°C; and

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wherein said at least one polymerized monomeric unit Mi chosen from polymerized monomeric units Mj is present in an amount less than or equal to 55 percent by weight relative to the total weight of the polymerized monomeric units Mi.

- 51. A composition according to claim 48, wherein said physiologically acceptable medium is chosen from pharmaceutically acceptable mediums and cosmetically acceptable mediums and further wherein said composition is chosen from forms of pharmaceutical compositions and cosmetic compositions.
- 52. A composition according to claim 48, further comprising at least one agent which is able to form a film.
- 53. A composition according to claim 52, wherein said at least one agent is chosen from plasticizing agents and coalescence agents.
- 54. A composition according to claim 48, wherein said at least one polymer is present in an amount ranging from 1 to 95 percent by weight, on a dry basis, with respect to the total weight of said composition.
- 55. A composition according to claim 54, wherein the range is from 1.5 to 90 percent by weight.
- 56. A composition according to claim 54, wherein the range is from 2 to 50 percent by weight.
- 57. A composition according to claim 48, wherein said at least one polymer is present in said physiologically acceptable medium containing at least

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one phase chosen from aqueous phases, organic phases, and aqueous/organic phases.

- 58 A composition according to claim 57 wherein said at least one phase is chosen from alcoholic and aqueous/alcoholic phases.
- 59. A composition according to claim 57, wherein said at least one-
- 60. A composition according to claim 48, wherein said composition has a form chosen from oil-in-water emulsions or multiple emulsions; water-in-oil emulsions or multiple emulsions; aqueous dispersions; oily dispersions; dispersions in a solvent medium; aqueous solutions; aqueous/alcoholic solutions; oily solutions; solutions in a solvent medium; aqueous gels; oily gels; microemulsions; microcapsules; microparticles of vesicular dispersions of ionic or non-ionic type; thickened fluids; gelled fluids; semi-solids; soft paste forms; and solid forms.
 - 61. A composition according to claim 60, wherein said solid forms are chosen from sticks and tubes.
 - 62. A composition according to claim 48, wherein said composition has a form chosen from products for protecting and/or for caring for the skin of the face, neck, hands, or body; compositions for making up the skin and/or body; antisun compositions; and artificial tanning compositions.

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- 63. A composition according to claim 62, wherein said products for protecting and/or for caring combat wrinkles or tiredness.
- 64. A composition according to claim 62, wherein said products for protecting and/or for caring impart a burst of radiance to the skin.
- 65. A composition according to claim 62, wherein said composition for making-up the face and/or body is in a form chosen from lipstick compositions, foundations, and tanning creams.
- 66. A process for treating a keratinous substance, comprising applying to said keratinous substance a composition, comprising, in a physiologically acceptable medium, at least one polymer having a star structure chosen from structures of formula (I):

$$A-[(M1)_{p1}-(M2)_{p2}...(Mi)_{pj}]_n$$
 (I)

in which:

A is chosen from polyfunctional centers having a functionality n; $[(M1)_{p1}-(M2)_{p2}.\ .\ .(Mi)_{pj}] \ represents a branch comprising at least one polymerized monomeric unit Mi having a polymerization index pj;$

n is an integer greater than or equal to 2;

i is greater than or equal to 1;

pj is greater than or equal to 2;

the at least two branches may be identical or different; and said at least two branches are grafted covalently to A; and

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wherein said at least one polymerized monomeric unit-Mi comprised by at least one of said at least two branches is chosen from polymerized monomeric units Mk, which may be identical or different, wherein a homopolymer formed by the corresponding polymerized monomeric units Mk has a Tg of greater than or equal to 10°C.

67. A process according to claim 66, further comprising at least one polymerized monomeric unit Mi contained by at least one of said at least two branches chosen from polymerized monomeric units Mj, which may be identical or different, wherein a homopolymer formed by the corresponding polymerized monomeric units Mj has a Tg of less than or equal to 10°C; and

wherein said at least one polymerized monomeric unit Mi chosen from polymerized monomeric units Mj is present in an amount less than or equal to 55 percent by weight relative to the total weight of the polymerized monomeric units Mi.

- 68. A process according to claim 66, wherein said keratinous substance is skin from the face, neck, hands, or body.
- 69. A process according to claim 68, wherein said keratinous substance is chosen from human keratinous substances.
- 70. A process for preparing a cosmetic or pharmaceutical composition which is able to form a film, comprising introducing, in a physiologically acceptable medium, at least one polymer in an amount effective for decreasing,

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erasing, concealing and/or softening wrinkles and/or fine lines on the skin, wherein said at least one polymer having a star structure chosen from structures of formula (I):

$$A-[(M1)_{p1}-(M2)_{p2}...(Mi)_{pj}]_{n}$$
 (1)

in which:

A is chosen from polyfunctional centers having a functionality n; $[(M1)_{p_1}-(M2)_{p_2}...(Mi)_{p_j}] \ \text{represents a branch comprising at least one polymerized} \\$ monomeric unit Mi having a polymerization index pj;

n is an integer greater than or equal to 2;

i is greater than or equal to 1;

pj is greater than or equal to 2;

the at least two branches may be identical or different; and said at least two branches are grafted covalently to A; and

wherein said at least one polymerized monomeric unit Mi comprised by at least one of said at least two branches is chosen from polymerized monomeric units Mk, which may be identical or different, wherein a homopolymer formed by the corresponding polymerized monomeric units Mk has a Tg of greater than or equal to 10°C.

71. A process according to claim 70, wherein said at least one polymerized monomeric unit Mi chosen from polymerized monomeric units Mk is

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pressent in an amount greater than or equal to 45 percent by weight relative to the total weight of the polymerized monomeric units Mi.

72. A process according to claim 70, further comprising at least one polymerized monomeric unit Mi contained by at least one of said at least two branches chosen from polymerized monomeric units Mj, which may be identical or different, wherein a homopolymer formed by the corresponding polymerized monomeric units Mj has a Tg of less than or equal to 10°C; and

wherein said at least one polymerized monomeric unit Mi chosen from polymerized monomeric units Mj is present in an amount less than or equal to 55 percent by weight relative to the total weight of the polymerized monomeric units Mi.

73. A process for cosmetic treatment of wrinkled skin, comprising applying to said wrinkled skin at least one polymer in an amount effective for softening the wrinkle or fine line by producing a tightening effect, wherein said at least one polymer having a star structure chosen from structures of formula (I):

$$A-[(M1)_{p1}-(M2)_{p2}...(Mi)_{pj}]_{n}$$
 (I)

in which:

A is chosen from polyfunctional centers having a functionality n; $[(M1)_{p1}-(M2)_{p2}...(Mi)_{pj}] \ \text{represents a branch comprising at least one polymerized} \\ \text{monomeric unit Mi having a polymerization index pj;}$

n is an integer greater than or equal to 2;

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The set i is greater than or equal to 1; and are the set of the se

h. A apj is greater than or equal to 2;

the at least two branches may be identical or different; and

said at least two branches are grafted covalently to A; and

wherein said at least one polymerized monomeric unit Mi comprised by at least one of said at least two branches is chosen from polymerized monomeric units Mk, which may be identical or different, wherein a homopolymer formed by the corresponding polymerized monomeric units Mk has a Tg of greater than or equal to 10°C.

74. A process according to claim 73, wherein said at least one polymerized monomeric unit Mi chosen from polymerized monomeric units Mk is pressent in an amount greater than or equal to 45 percent by weight relative to the total weight of the polymerized monomeric units Mi.

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75. A process according to claim 73, further comprising at least one polymerized monomeric unit-Mi contained by at least one of said at least two branches chosen from polymerized monomeric units Mj, which may be identical or different, wherein a homopolymer-formed by the corresponding polymerized monomeric units Mj has a Tg of-less than or equal to 10°C; and

wherein said at least one polymerized monomeric unit Mi chosen from polymerized monomeric units Mj is present in an amount less than or equal to 55 percent by weight relative to the total weight of the polymerized monomeric units Mi.